Calendar Solutions in Snow Leopard Server, Snow Leopard, and iPhone

Session 612

These are confidential sessions—please refrain from streaming, blogging, or taking pictures.

Calendar Solutions in Snow Leopard Server, Snow Leopard, and iPhone

Wilfredo Sánchez Vega
iCal Server Engineering Manager

Introduction

Apple's calendar offerings

- iCal
- iCal Server
- Web Calendar
- iPhone Calendar

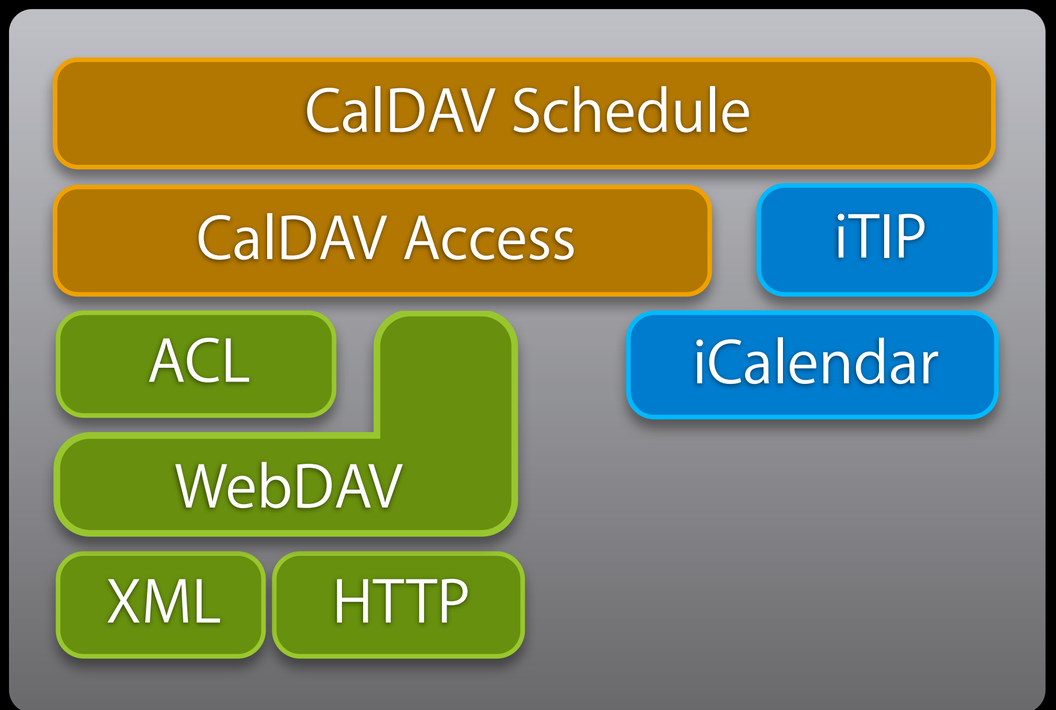
Calendaring Calendar

CalDAV

- CalDAV is the glue that ties the pieces together
- It is built on well-established standards
- It has been adopted by several players in the market

CalDAV

Protocol and standards




```
POST /calendars/users/wsanchez/outbox/ HTTP/1.1
Host: icalserver.apple.com:8080
Depth: 1
Content-Type: text/calendar
Content-Length: 426
Authorization: ...
BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//Apple Computer\, Inc//iCal 3.0//EN
METHOD:REQUEST
BEGIN:VFREEBUSY
UID:20060110T231240Z-4011c71-187-6f73-aa
ORGANIZER:CN=Cyrus Daboo:/principals/users/cyrus
ATTENDEE:CN=Chris Lecroy:/principals/users/chris
DTSTAMP:20060724T133457Z
DTSTART:20060809T200000Z
DURATION:PT1H
SUMMARY:Dinner
END:VFREEBUSY
END:VCALENDAR
```

CalDAV Vendors

KERIO

IBM

YAHOO!
Zimbra

eM client

mozilla
FOUNDATION

ORACLE

Sun
microsystems

Google

SCALIX

ZideOne

Mulberry
Email, Calendars and Contacts
from the Ground Up™

Demo Background

A day in the life of…

Cyrus

Cyrus

Suits, Inc.

Cyrus

Cyrus

Need an app image

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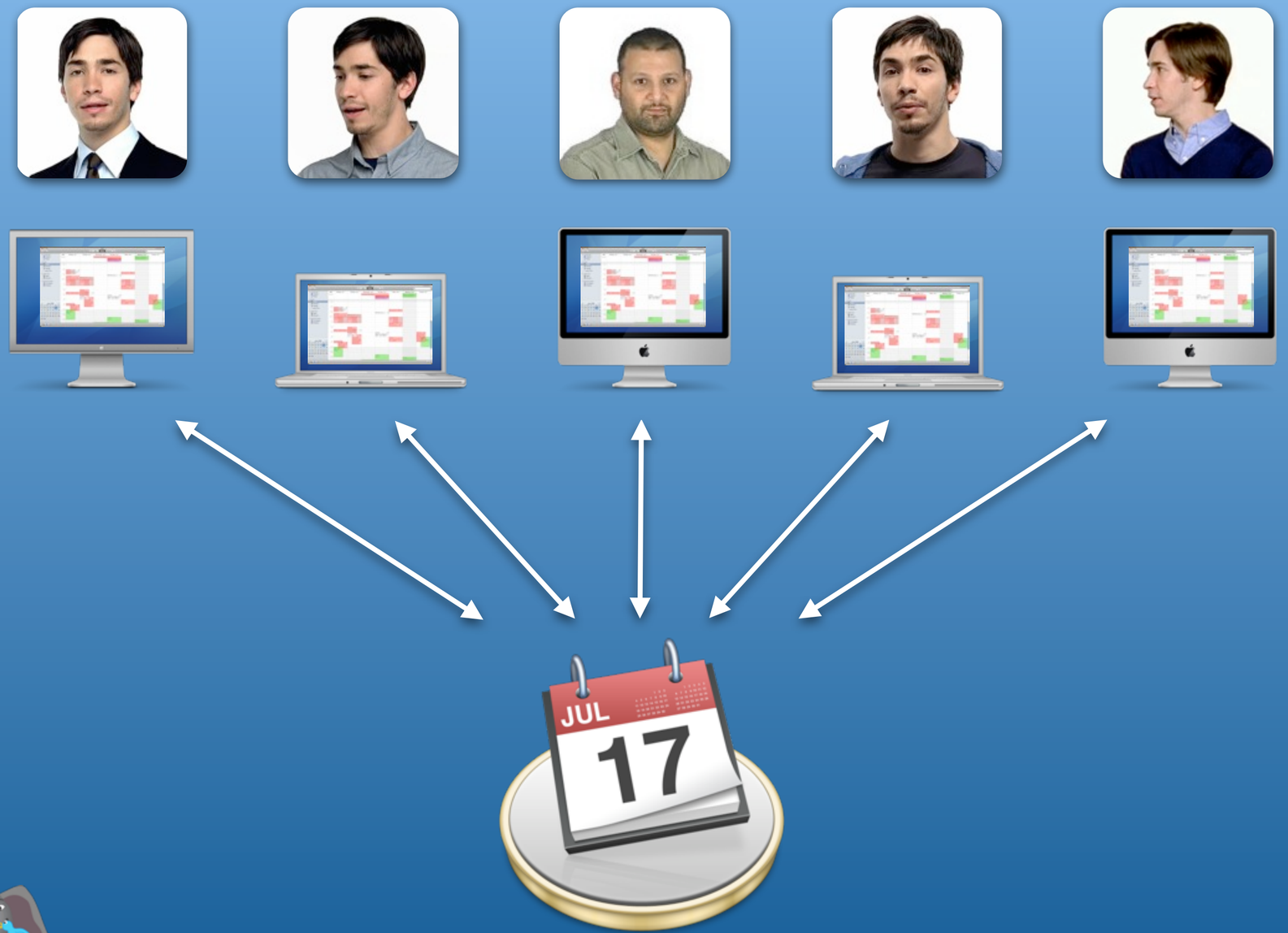
Suits, Inc.
Corporate Network



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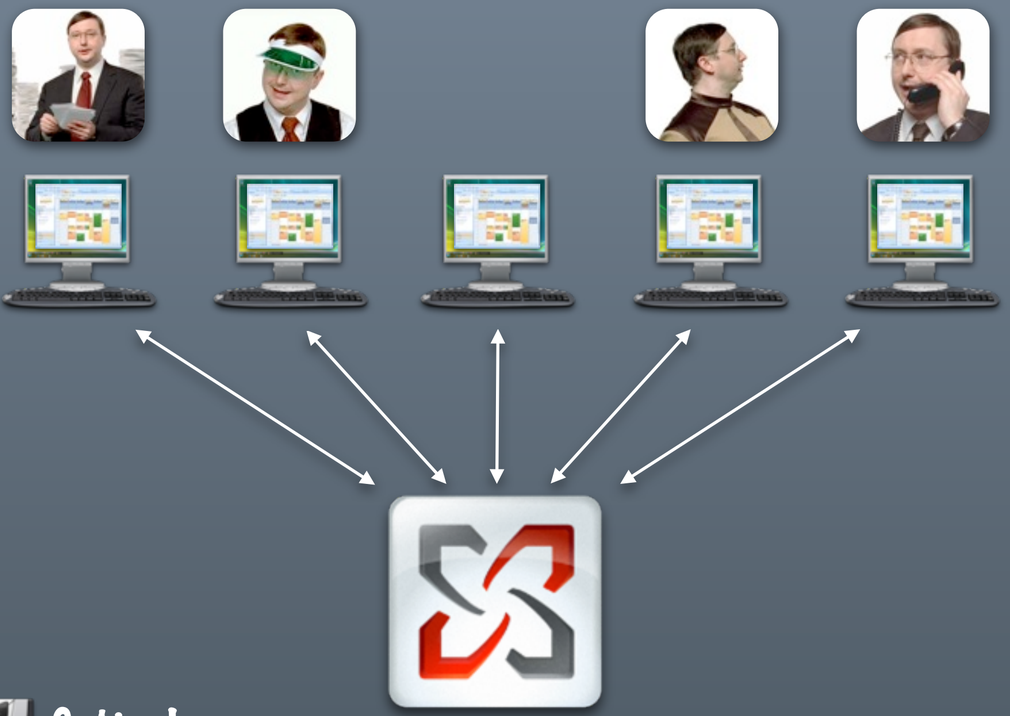

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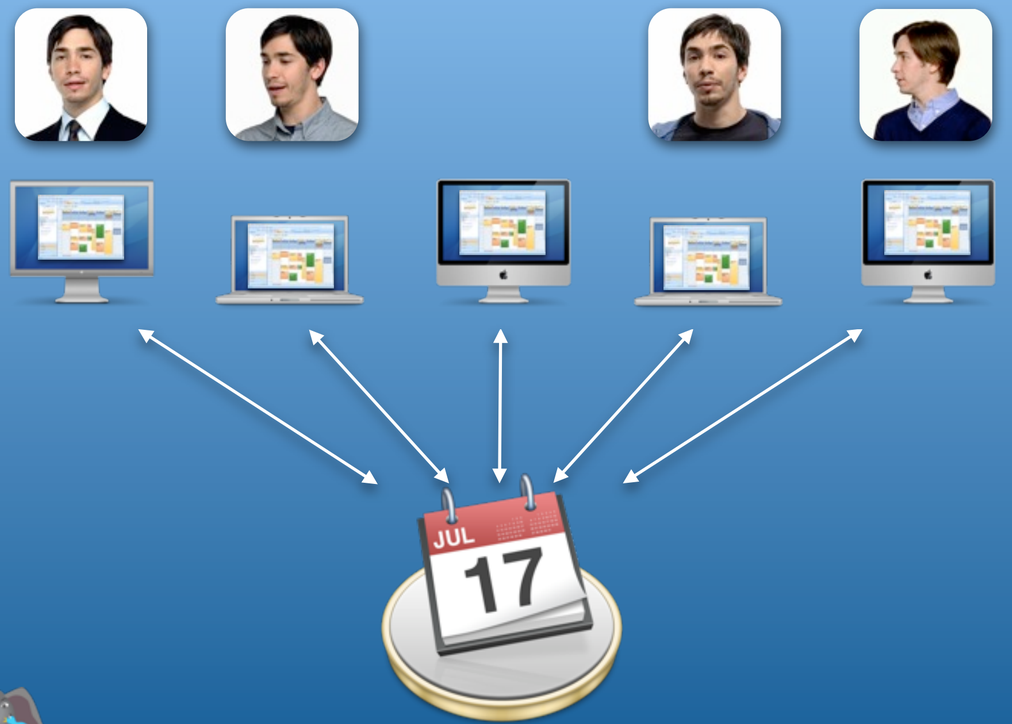

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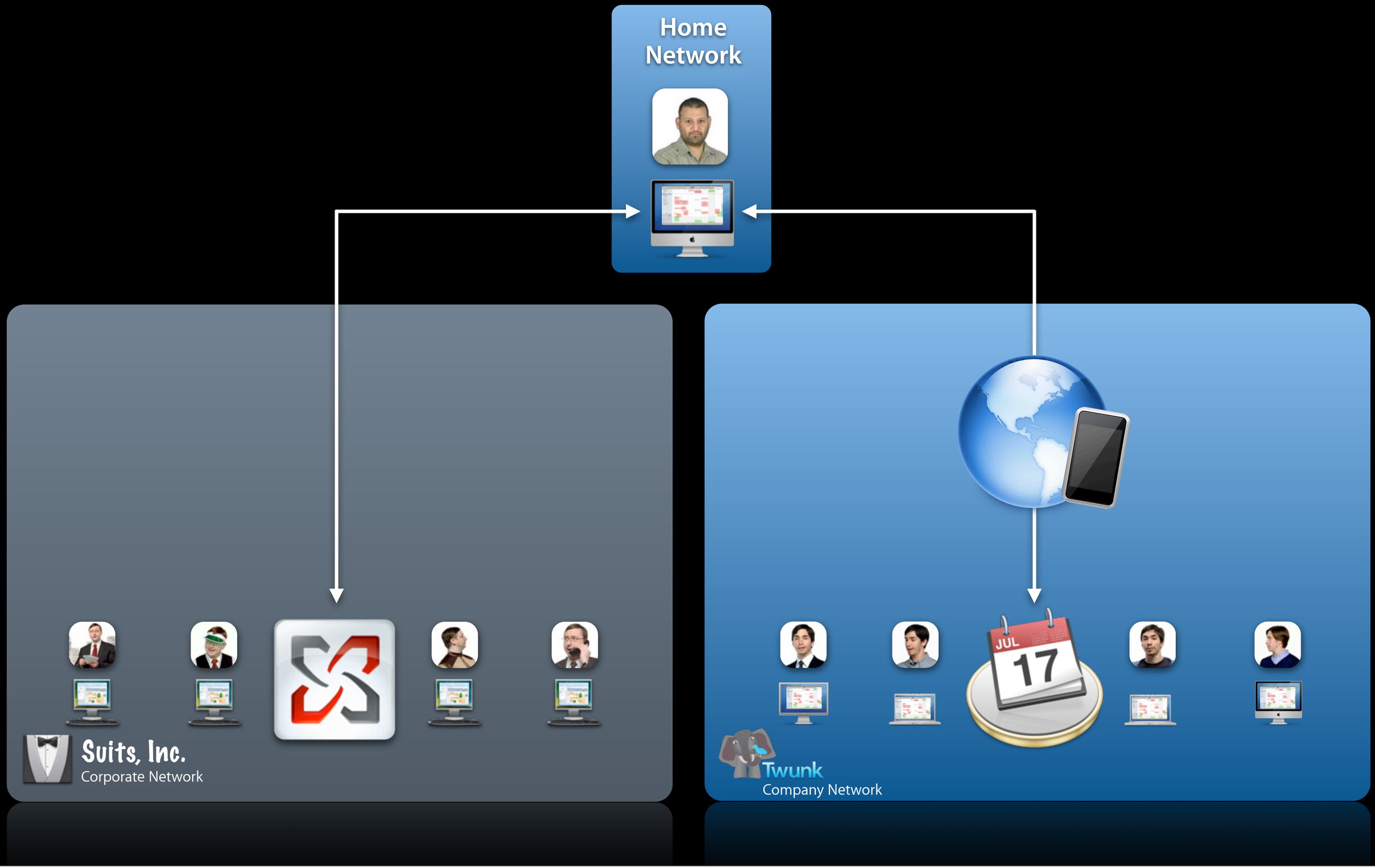
Home
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Suits, Inc.
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Company Network

3G Network

Suits, Inc.
Corporate Network

Twunk
Company Network

Internet Café

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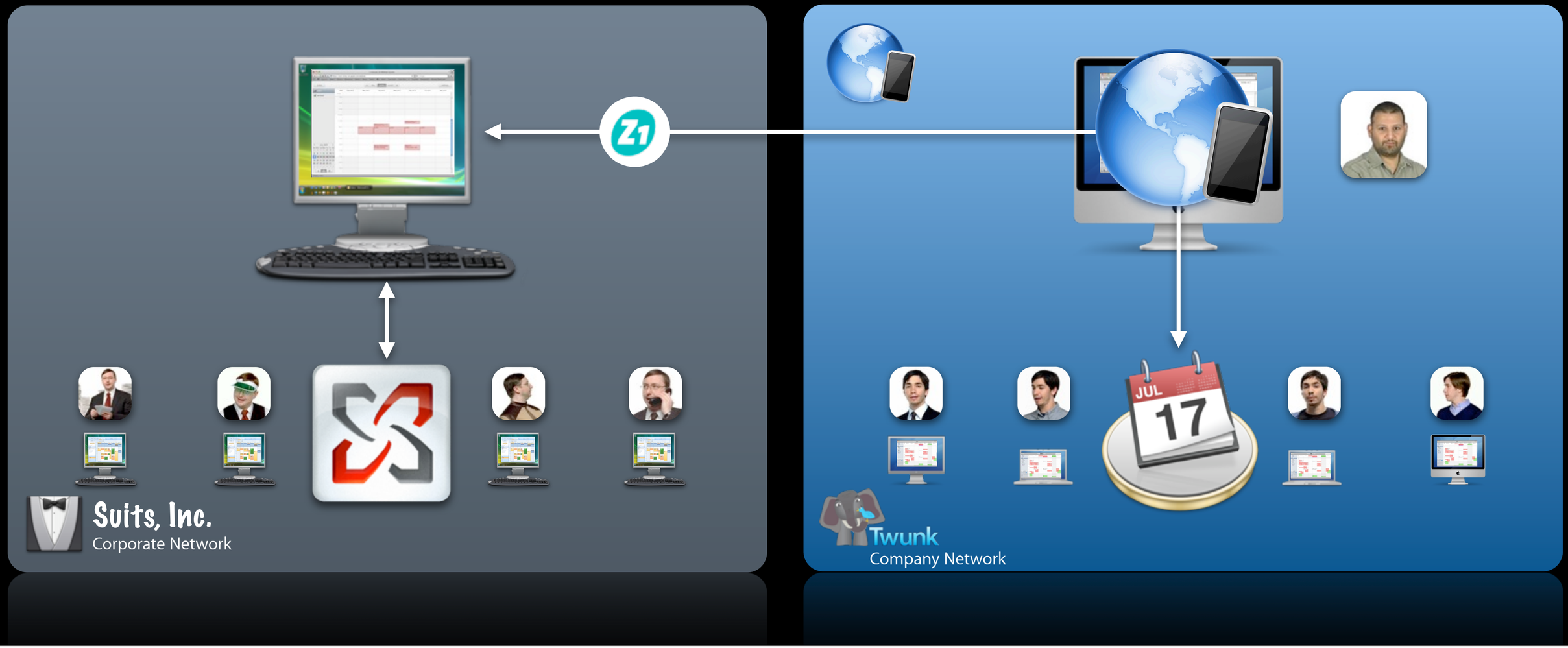
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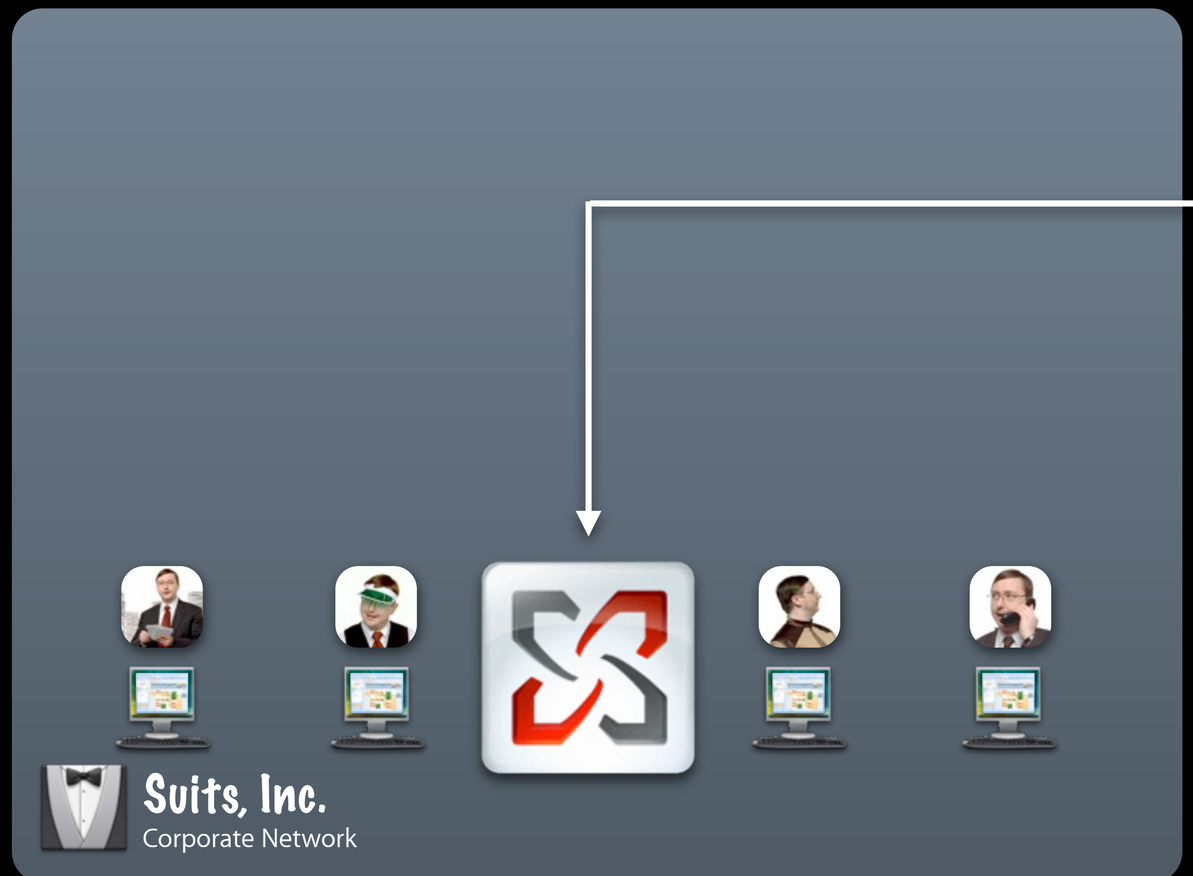
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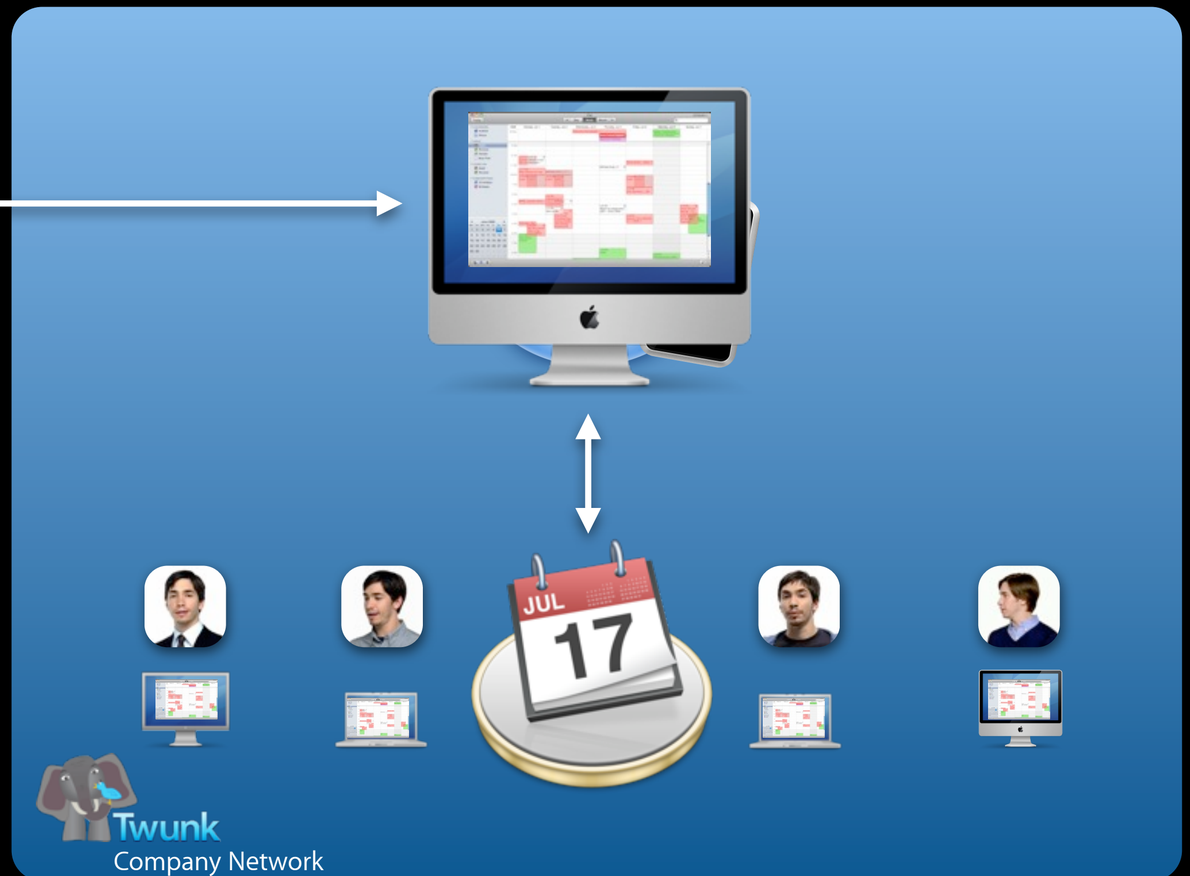
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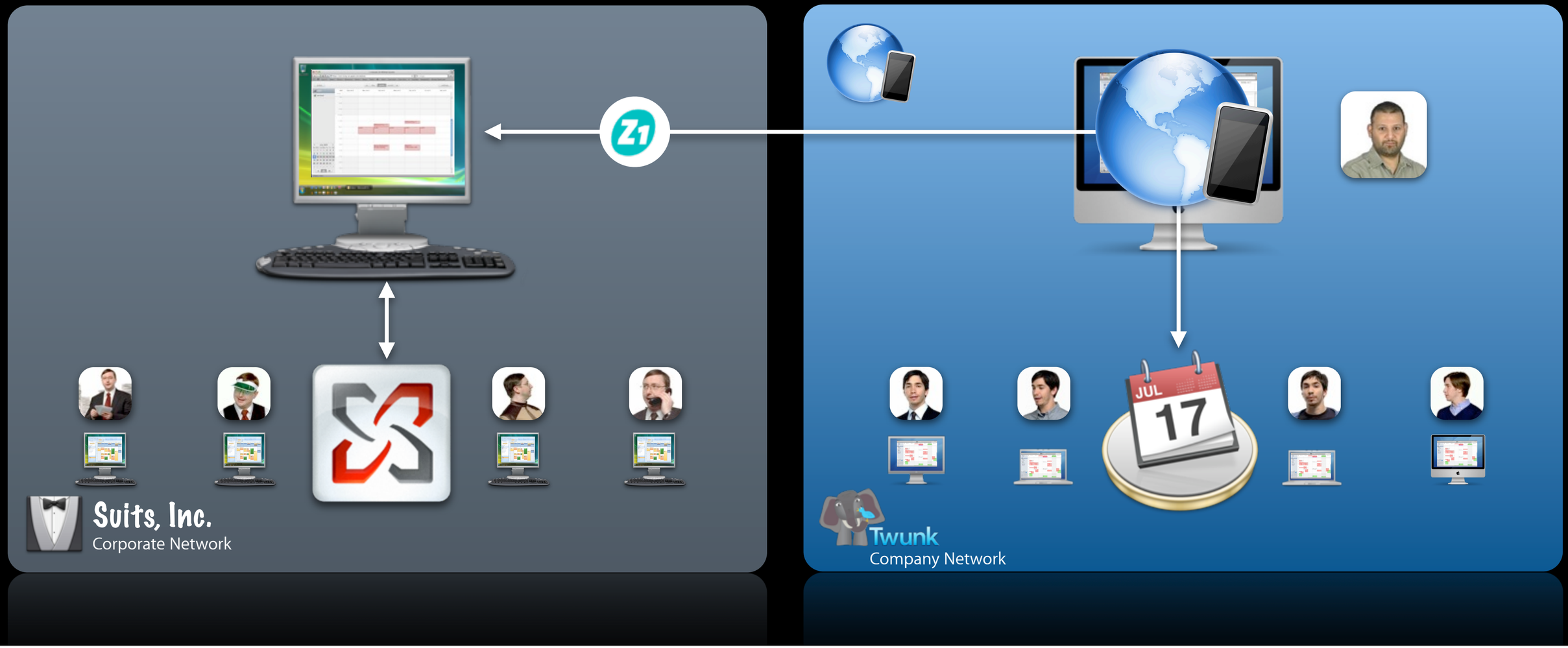
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Demo

Cyrus Daboo
Senior Software Engineer, iCal Server

OK, What Did We Just See?

- iCal 4
  - Connects to CalDAV and Exchange
- iPhone 3
  - Connects to CalDAV and Exchange
- iCal Server 2
  - Implements CalDAV
  - Web Calendar
- Safari 4
- Mobile Access Server

3G Network

Home Network

Internet Café

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Updates

What's New in iCal Server 2?

- Attendee lookup support
  - Clients no longer need to bind to OpenDirectory
  - No more ServicesLocator schema extensions
- Improved performance
- Improved client data validation
- Implicit scheduling
- Server-to-client "push" notifications
- Email invitations
- User web calendar

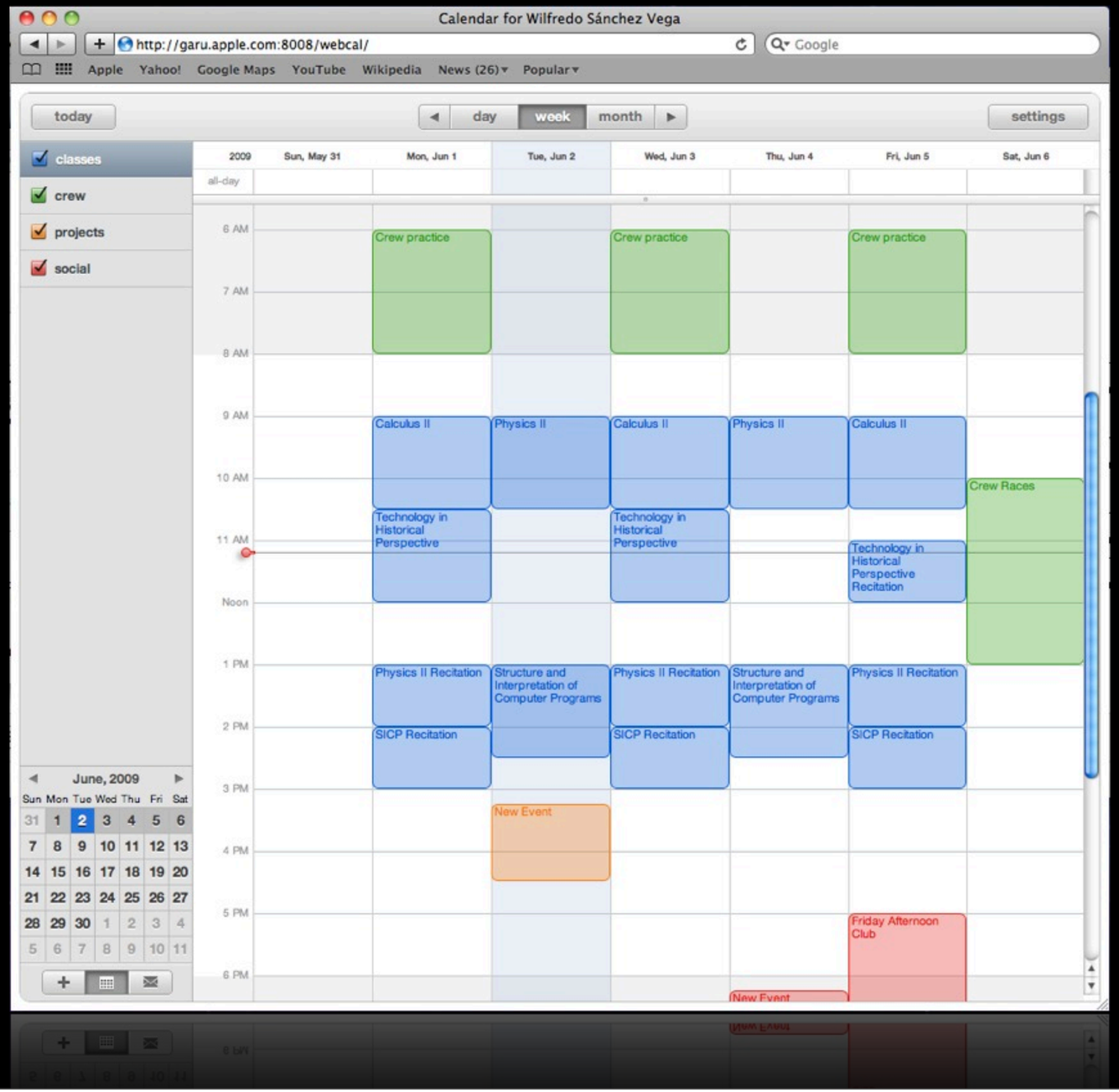
Implicit Scheduling

- Major change in CalDAV-schedule draft spec
- Moves most of the iTIP processing from the clients to the server
  - Makes it a lot easier to write a client
  - Reduces the number of iTIP implementations in play
    - Makes it a lot easier to deploy bug fixes
  - Maintains consistency on the server
  - Updates can happen while clients are offline

Server-to-Client Notifications

- Removes the need for clients to poll
  - Reduces server workload
  - Improves user experience
- Built on XMPP
  - Will propose as a standard

Web Calendar



Email Invitations

- Meetings no longer limited to server accounts
- Server will deliver an iMIP message to non-local email addresses
  - HTML body, plus plain, plus attachment
  - Many mail agents can send this to your calendar for you
- Replies come to server
  - Allows for immediate processing

Email Invitations

Apple Mail

From: Morgen Sagen <ical-living-on@apple.com>
Subject: **Event invitation: Punch and Pie**
Date: June 2, 2009 10:52:08 AM PDT
To: wwdc09@gmail.com
Reply-To: ical-living-on+2673ea0b-fbbc-48c2-8386-a189c5b35d92@apple.com
1 Attachment, 1.2 KB Save Quick Look

Event Invitation

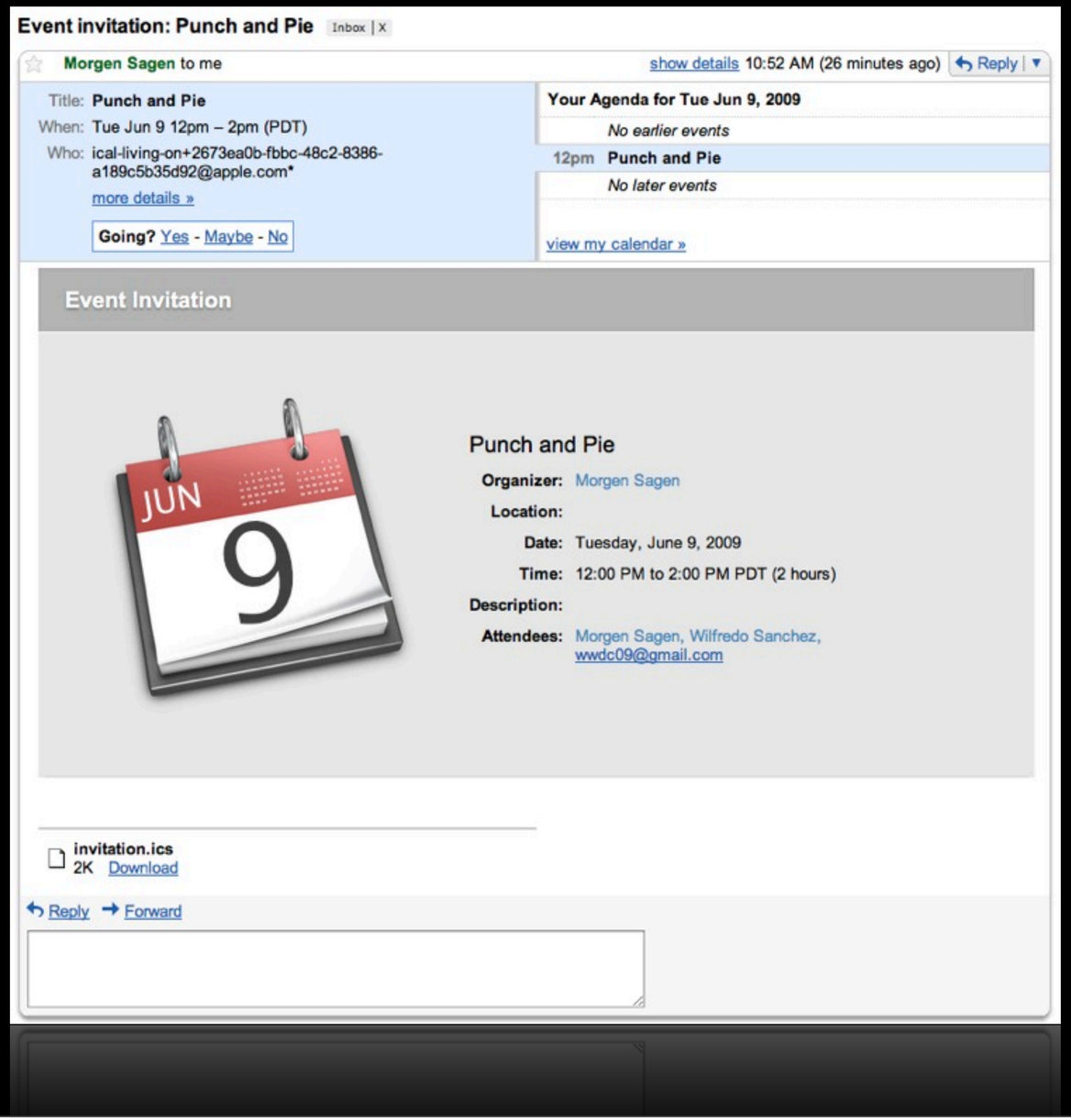
Punch and Pie

Organizer: Morgen Sagen
Location:
Date: Tuesday, June 9, 2009
Time: 12:00 PM to 2:00 PM PDT (2 hours)
Description:
Attendees: Morgen Sagen, Wilfredo Sanchez, wwdc09@gmail.com

invitation.ics (1.2 KB)

Email Invitations

GMail



What's New in Snow Leopard Server

- Wiki calendars
  - User calendars
  - Scheduling, richer editing
- Notification Server
- Mobile Access Server
- Integration with Mail Server

What's New in iCal 4?

- Implicit scheduling
- Server-to-client "push" notifications
- Attendee lookups via CalDAV
- Attendee comments
- Exchange support
- Simple account setup, including Yahoo!, Google, and Exchange
- 64-bit top to bottom

What's New in iPhone 3?

- Support for CalDAV calendar accounts

More Information

Mark Malone
Internet and Server Technologies Evangelist
mmalone@apple.com

Apple Training and Certification
http://training.apple.com

Other Sessions

iCal and Calendar Store Lab	Snow Leopard Lab Tuesday 5:00PM
Mac OS X Server State of the Union	Pacific Heights Monday 5:00PM
What's New for Wiki Server 2	Mission Thursday 10:30AM
Deploying Mobile Access Server	Russian Hill Wednesday 2:00PM
What's New in Directory Services	Nob Hill Wednesday 9:00AM
Calendar and Contacts Lab	Informations Technologies Lab Tuesday 3:00PM

Q&A

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